

# Alberto Turégano Castedo

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## EMPLOYMENT

Assistant Professor, Dept. of Quantitative Methods, CUNEF Universidad, Madrid — Sept 2026 – Present

Adjunct Professor, Dept. of Quantitative Methods, CUNEF Universidad, Madrid — Jan 2025 – 2026

- Designed and delivered a university-level curriculum on Relational Databases, SQL, Stored Procedures, Triggers, and NoSQL principles.
- Mentored students in database design best practices, bridging academic theory with real world industry experience.

Principal Engineer, QBi Solutions, Madrid — Jun 2024 – Aug 2026

- Led the end-to-end design and development of a new SaaS platform on .NET 10, defining the technical roadmap and architecture strategy from inception.
- Architected the migration from a monolithic system to microservices using Vertical Slice Architecture, Domain-Driven Design, and Event Sourcing with Dapr and Azure Service Bus.
- Established cloud-native orchestration patterns with .NET Aspire and Azure Container Apps, reducing deployment complexity and improving scalability.
- Integrated AI-assisted development workflows using coding agents (Claude Code), custom skills, and MCP servers to streamline code generation and cross-system automation.

Senior Backend Engineer, Journi LTD, Remote (UK) — Mar 2023 – Mar 2024

- Spearheaded a full data migration from a legacy system, designing and executing migration plans using T-SQL Stored Procedures and ETL pipelines with Azure Data Factory.

- Achieved significant SQL performance gains through query optimization, indexing strategies, and scripting improvements.

.NET Developer → Senior .NET Developer, One Beyond, Madrid – Nov 2021 - Feb 2023

- Built enterprise-grade RESTful Web APIs from scratch using .NET 6/7, employing Vertical Slice Architecture, DDD, and CQRS patterns for a major British client.
- Designed and integrated Azure cloud infrastructure: API Gateway, Blob Storage, Web Services, KeyVault, and Keycloak for identity management.

Junior Full Stack Developer, Raona, Madrid — Jan 2019 – Dec 2020

- Led the development of a Single Page Application (AngularJS) and a mobile hybrid app (Angular 5 + Ionic 3).

## EDUCATION

- Master's Degree in Artificial Intelligence, UNIR – Universidad Internacional de La Rioja (ongoing).
- Computer Science Engineering, Universidad Complutense de Madrid, 2016–2020.
- MiFID II Financial Advisor Certification, IEB – Instituto de Estudios Bursátiles, Jun 2024.
- Academic Computer Science Degree (Official Certification), Jul 2021

## FIELDS OF INTEREST

Software architecture, microservices, Domain-Driven Design, and AI-assisted development

## PUBLICATIONS

Turégano Castedo, A. (2020). An analysis of smart contracts security threats alongside existing solutions. Entropy, 22(2), 203. <https://www.mdpi.com/1099-4300/22/2/203>

## PROFESSIONAL ACTIVITIES

Maintainer of Monaco, an open-source .NET Core project template for REST APIs and backend services ([github.com/onebeyond/monaco](https://github.com/onebeyond/monaco)).